

REMARKS

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page(s) is captioned "Version With Markings

To Show Changes Made."

Respectfully submitted,

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By:

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION

Page 1, before the first line, please insert as a separate paragraph:

This application is the US national phase of international application PCT/GB00/03483 filed 08 September 2000, which designated the US.

IN THE CLAIMS

- 3. An optical device as claimed in claim 1-or 2, wherein the two-dimensional array is in a plane parallel to the active layer and extends to a depth comparable to that of the active layer.
- 4. An optical device as claimed in claim 1, 2 or 3, wherein the individual elements are holes.
- 7. An optical device, as claimed in one of claims 4-to 6, wherein the holes extend to a depth comparable to that of the active layer in a direction that is perpendicular to the plane parallel to the active layer.
- 8. An optical device, as claimed in one of claims 4 to 6, wherein the holes extend to a depth comparable to that of the active layer in a direction that is not perpendicular to the plane parallel to the active layer.

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- 9. An optical device, as claimed in one of claims 4-to 8, wherein the holes are regions of different refractive index to that of the device structure.
- 10. An optical device, as claimed in one of claims 4-to 9, wherein the holes are regions of different gain or loss to that of the device structure.
- 11. An optical device, as claimed in one of claims 3-to-10, wherein the distributed reflector does not pierce the active region.
- 12. An optical device, as claimed in one of claims 3-to 10, wherein the distributed reflector partially pierces the active region.
- 13. An optical device, as claimed in one of claims 3-to 10, wherein the distributed reflector fully pierces the active region.
- 14. An optical device, as claimed in any preceding claim 1, wherein the distributed reflector is within the device.
- 17. An optical device as claimed in any preceding claim_1, with means for varying the electrical bias or biases applied to the device to obtain efficient optical emission in single wavelength operation.

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- 19. An optical device, as claimed in any preceding claim 1, which is integrated with separate amplifying, absorbing or passive sections.
- 21. An optical device, as claimed in a in any preceding claim 1, with means for being pulsed by gain switching, Q-switching or mode-locking techniques.